

Title (en)
Brazing of metal components

Title (de)
Hartlöten von Metallkomponenten

Title (fr)
Brasage de composants métalliques

Publication
EP 2548687 B1 20160629 (EN)

Application
EP 12175957 A 20120711

Priority
GB 201112376 A 20110719

Abstract (en)
[origin: EP2548687A1] A method of bonding a first component (10) comprising a titanium-containing alloy to a second metal component (12), wherein a coating layer (14,16) is applied to each of the first and second components in the region to be bonded. The coating layers (14,16) comprise a precious metal. An intermediate metallic layer (18) is interposed between the coating layer (14) of the first component and the coating layer (16) of the second component. The respective coating layers are held in contact with the intermediate layer (18) and the coating layers and the intermediate layer are heated to initiate melting of at least one of said layers so as to form a bond between the first and second components by brazing.

IPC 8 full level
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C-Set (source: EP US)
H01L 2924/01322 + H01L 2924/00

Citation (examination)
• US 5961853 A 19991005 - THORNTON PETER HOWARD [US]
• REN-HAUR SHIUE ET AL: "Infrared Brazing Ti 50 Ni 50 and Ti-6Al-4V Using the BAg-8 Braze Alloy", MATERIALS TRANSACTIONS VOL. 46, NO. 9, 15 September 2005 (2005-09-15), pages 2057 - 2066, XP055166619, Retrieved from the Internet <URL:https://www.jim.or.jp/journal/e/pdf3/46/09/2057.pdf> [retrieved on 20150202]
• SHIUE R H ET AL: "Infrared brazing of Ti50Ni50 shape memory alloy using two Ag-Cu-Ti active braze alloys", INTERMETALLICS, ELSEVIER SCIENCE PUBLISHERS B.V, GB, vol. 14, no. 6, 4 January 2006 (2006-01-04), pages 630 - 638, XP027905570, ISSN: 0966-9795, [retrieved on 20060601]

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